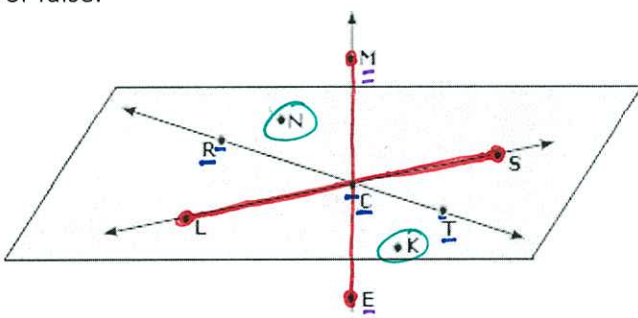


Name: _____ TP: _____

Failure to show work on all problems or use complete sentences will result in a LaSalle.

<p>1) a. Find the solution set of $2x = 15$.</p> <p><i>§ • Set up two equations</i></p> $\frac{2x}{2} = \frac{15}{2} \quad \frac{2x}{2} = \frac{-15}{2}$ $x = 7.5 \quad x = -7.5$ <p>b. What is the distance between the two values for x?</p> $ 7.5 - (-7.5) =$ $ 15 = \boxed{15 \text{ units}}$	<p>2) a. What are the values that satisfy $5 - 2k = 9$?</p> <p><i>← same</i></p> <p><i>• set up 2 equations, solve</i></p> $5 - 2k = 9 \quad 5 - 2k = -9$ <p>b. What is the sum of the two values for k?</p>
<p>3) a. What is the solution set of $3 2w - 2 = 18$</p> <p>b. How far apart are the values for w?</p>	<p>4) a. Find the solution set of $4 5x - 1 + 4 = 36$</p> <p>b. What is the sum of the two values of x?</p>

Unit 1 Review

<p>5) Determine whether the following statements are true or false:</p>  <p>a. Points <u>R</u>, <u>C</u> and <u>T</u> are coplanar. <u>TRUE</u> <i>All on same plane</i></p> <p>b. Line <u>LS</u> is the segment bisector of line <u>ME</u>. _____</p> <p>c. Points <u>N</u> and <u>K</u> are non-coplanar. _____</p> <p>There are 2 non-coplanar points <u>M</u> and <u>E</u>. _____</p>	<p>6) On a number line, point <u>W</u> is located at 3, <u>X</u> is located at -5, <u>Y</u> is located at -16, and <u>Z</u> is located at 11. What is the distance, in coordinate units, between points <u>W</u> and <u>Z</u>?</p> <p><i>*ABSOLUTE VALUE*</i></p> <p>7) What is the midpoint of the line segment with endpoints (-1, -2) and (3, -4)?</p> $M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$
<p>8) A line segment has an endpoint of <u>Q(6, -3)</u> and a midpoint <u>R(5, -5)</u>. What is the other endpoint <u>S</u>?</p> <p><i>Q(6, -3) R(5, -5) S(x, y)</i></p> <p><i>x₁ y₁ x_m y_m x₂ y₂</i></p> $\frac{x_1 + x_2}{2} = x_m \quad \frac{y_1 + y_2}{2} = y_m$	<p>9) Segment AB measures $3x + 25$ cm. Segment BC measures $12x - 10$. What is the measure of segment AB if AC is equal to 100 cm?</p> <p><i>AB + BC = AC</i></p> <p><i>AC = 100 cm</i></p>

PUSH IT TO THE LIMIT.

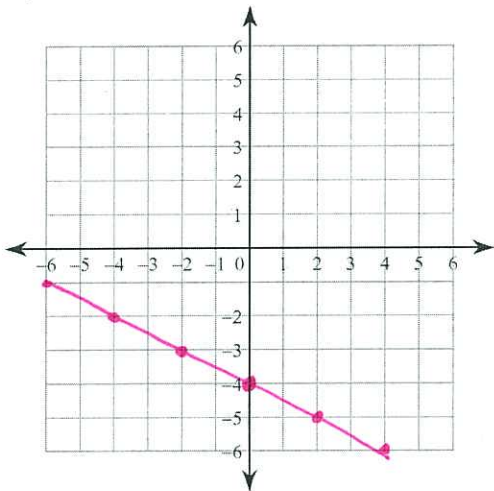
10) Rearrange the equation in slope-intercept form.

$$\begin{aligned} -2y &= 8 + x \\ \frac{-2y}{-2} &= \frac{8}{-2} + \frac{x}{-2} \\ y &= -4 - \frac{1}{2}x \\ y &= -\frac{1}{2}x - 4 \end{aligned}$$

$$y = mx + b$$

Y-intercept: -4 Slope: $-\frac{1}{2}$

Graph:

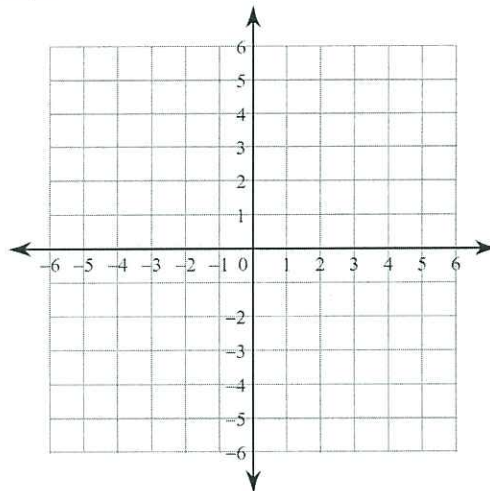


11) Rearrange the equation in slope-intercept form.

$$\begin{aligned} 2x - y &= 4 \\ -2x - y &= -2x + 4 \\ \frac{-y}{-1} &= \frac{-2x + 4}{-1} \\ y &= 2x - 4 \end{aligned}$$

Y-intercept: _____ Slope: _____

Graph:

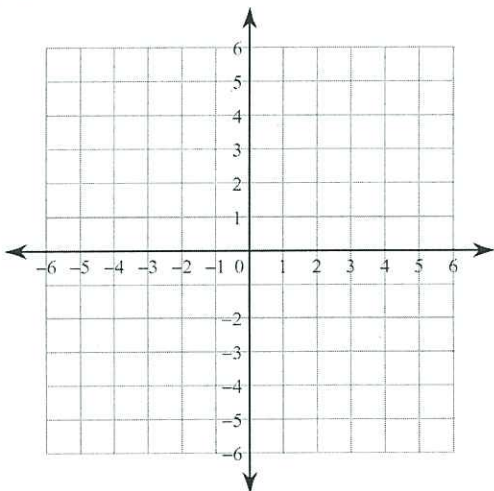


12) Rearrange the equation in slope-intercept form.

$$-6 = -5x - 3y$$

Y-intercept: _____ Slope: _____

Graph:

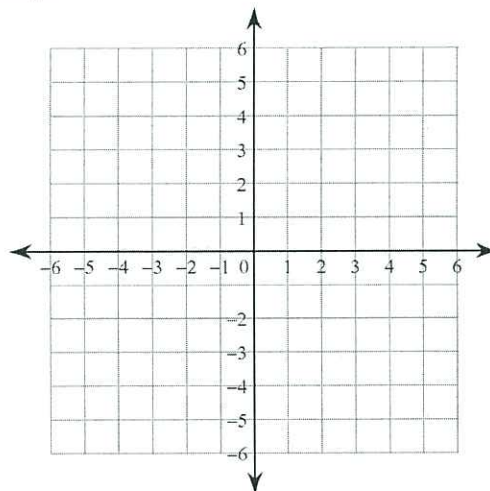


13) Rearrange the equation in slope-intercept form.

$$16 = 10x + 4y$$

Y-intercept: _____ Slope: _____

Graph:



PUSH IT TO THE LIMIT.

Name: _____ TP: _____

HW#7 **FORM A:** Absolute Value Inequalities
Geometry
Due Date: Thursday, Sept. 13th, 2012

Failure to show work on all problems or use complete sentences will result in a LaSalle.

Write your answer as a solution set! EX for "or": $\{x > 5 \text{ or } x < -1\}$; For "and": $\{-2 < x < 5\}$ or $\{x > -2 \text{ and } x < 5\}$

1. $|x - 4| < 10$
 $-6 < x < 14$
 $x - 4 < 10$
 $+4 +4$
 $x < 14$
 $x - 4 > -10$
 $+4 +4$
 $x > -6$



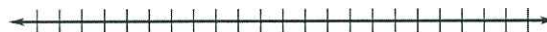
2. $|x + 7| > 4.5$



3. $|x - 10| \leq 13$



4. $|2x - 5| > 17$

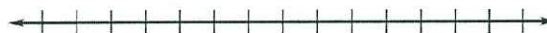


5. $|8 - 3x| < 14$



6. ~~$7\frac{1}{2}x + 5 \geq 14$~~

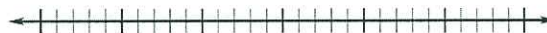
skip



7. $\frac{-2|4x + 3|}{-2} < \frac{-8}{-2}$
 Reverse symbol!
 $|4x + 3| > 4$



8. $|5x - 2| - 8 \geq -3$



9) What is the distance between the solution set of:
 $|2x - 3| = 15$

10) The equation $5|2x - 3| + 8 = 13$ has two solutions.
 What is the distance between these two solutions?

11) **Error Analysis.** Describe and correct the error made below in the box to the right →
 $|-x + 2| - 8 = 4$
 $|-x + 2| - 8 = 4$ or $|-x + 2| - 8 = -4$
 $-x + 2 = 12$ or $-x + 2 = 4$
 $-x = 10$ or $-x = 2$
 $\{-10, -2\}$

PUSH IT TO THE LIMIT.

$$y = mx + b$$

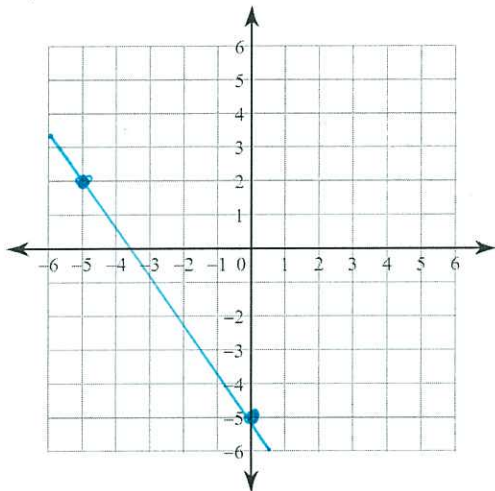
12) Rearrange the equation in slope-intercept form.

$$7x = -5y - 25$$

$$\begin{array}{r} -5y - 25 \quad 7x \\ +25 \quad +25 \\ \hline -5y = 7x - 25 \\ \div -5 \quad \div -5 \\ y = -\frac{7}{5}x + 5 \end{array}$$

Y-intercept: 5 Slope: $-\frac{7}{5}$

Graph:

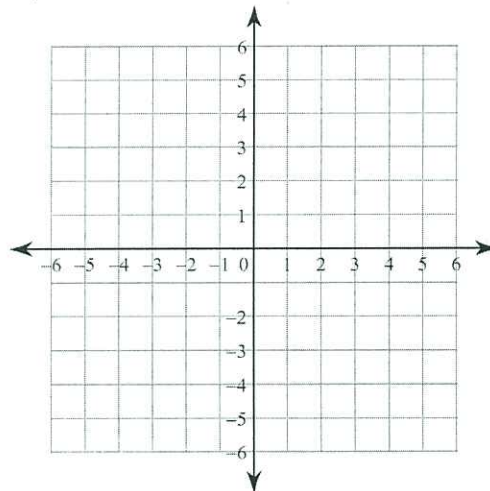


13) Rearrange the equation in slope-intercept form.

$$3x = 36 - 12y$$

Y-intercept: _____ Slope: _____

Graph:

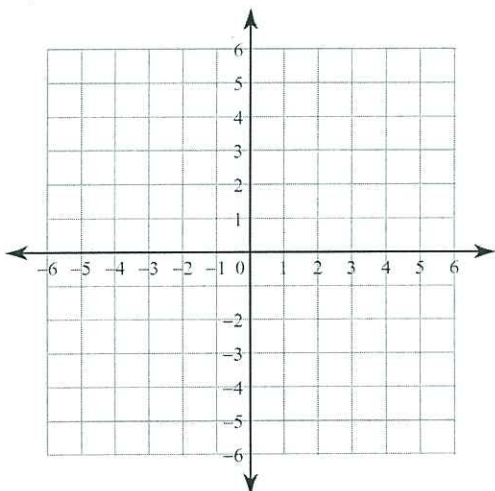


14) Rearrange the equation in slope-intercept form.

$$10 - 5y = 7x$$

Y-intercept: _____ Slope: _____

Graph:

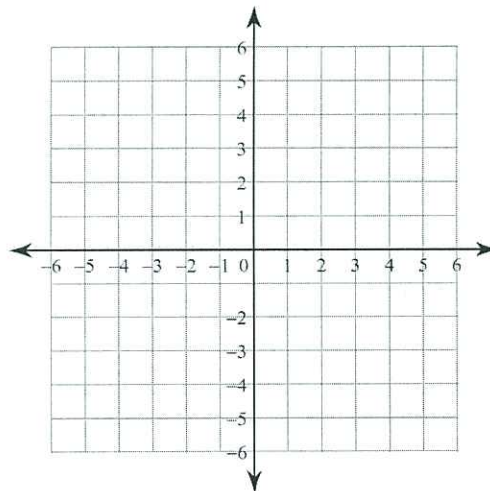


15) Rearrange the equation in slope-intercept form.

$$0 = 5y - x$$

Y-intercept: _____ Slope: _____

Graph:



PUSH IT TO THE LIMIT.

Name: _____ TP: _____

HW#7A **FORM A:** Quiz 2 Review
Geometry
Due Date: Monday, Sept. 17th, 2012

Failure to show work on all problems or use complete sentences will result in a LaSalle.

<p>1) What is the solution set of $x > 1.5$?</p> <p>$x > 1.5$ $x < -1.5$</p> <p>$1.5 < x < -1.5$</p>	<p>2) What are the values of d that satisfy the equation $-6d + 4 \geq 3$?</p>
<p>3) Solve the inequality. Graph your solution.</p> <p>$6 2x + 9 - 14 \leq 16$ REVERSE GEMA</p> <p>$\frac{6 2x+9 }{6} \leq \frac{30}{6}$</p> <p>$2x+9 \leq 5$</p> <p>$2x+9 \leq 5$ $2x+9 \geq -5$ solve each for x...</p>	<p>4) Solve and graph: $5 + 2 w \leq 15$</p>
<p>5) Solve and graph: $\frac{ 3x - 4 }{2} + 3 \geq 10$</p>	<p>6) Find the values of w: $-2 3w + 8 - 13 < -5$</p>
<p>7) Determine whether the given value is a solution of the inequality $4 x - 5 + 6 < 14$; 10</p>	<p>8) Check whether the ordered pair is a solution of the equation.</p> <p>a. $-x + 2 < -12$; 3</p> <p>b. $6x + 5 > -3$; 5</p>
<p>9) Error Analysis. Describe and correct the error in solving the absolute value equation.</p> <p>$x - 6 = -2$</p> <p>$x - 6 = -2$ or $x - 6 = 2$</p> <p>$x = 4$ or $x = 8$</p>	<p>10) What is the sum of the solutions of the following equation: $2 6x + 5 - 1.3 = -3.8$?</p>

PUSH IT TO THE LIMIT.

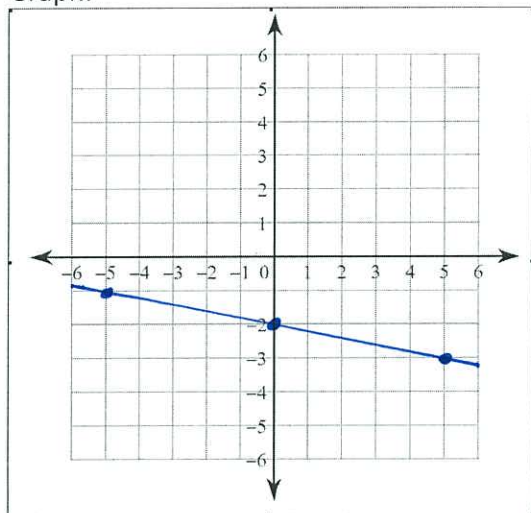
11) Rearrange the equation in slope-intercept form.

$$0 = x + 5y + 10$$

$$\begin{array}{r} -5y \\ -5y = \frac{x+10}{-5} \\ y = -\frac{1}{5}x - 2 \end{array}$$

Y-intercept: -2 Slope: $-\frac{1}{5}$

Graph:

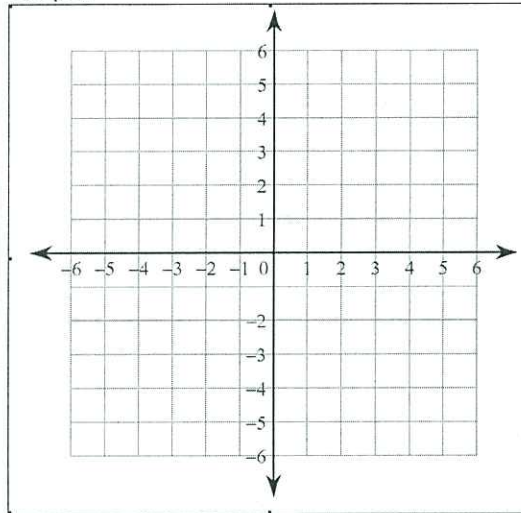


12) Rearrange the equation in slope-intercept form.

$$4y - 16 - x = 0$$

Y-intercept: _____ Slope: _____

Graph:

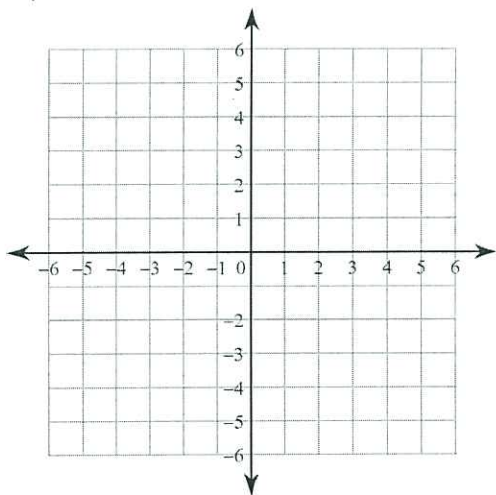


13) Rearrange the equation in slope-intercept form.

$$0 = 20 + x + 5y$$

Y-intercept: _____ Slope: _____

Graph:

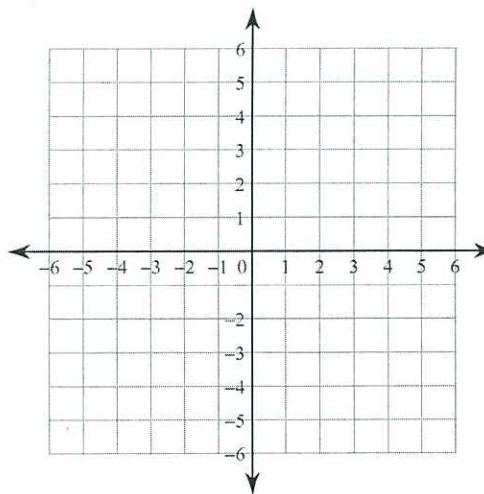


14) Rearrange the equation in slope-intercept form.

$$6 = -2x - 2y$$

Y-intercept: _____ Slope: _____

Graph:



PUSH IT TO THE LIMIT.